1 SUPERIOR COURT OF THE STATE OF CALIFORNIA 2 FOR THE COUNTY OF SANTA CLARA 3 4 5 ------6) 7) Santa Clara 8 ANTELOPE VALLEY GROUNDWATER CASES,) Case No. 9) 1-05-CV-049053 10) VOLUME II 11 _____ 12 13 14 15 TRIAL TESTIMONY OF JOSEPH SCALMANINI 16 TUESDAY, JANUARY 11, 2011 17 18 19 20 **REPORTED BY:** 21 JANIS JENNINGS, CSR 3942, CLR, CRP 22 23 24 25 Pages 139 - 282 Page 139

1	neighborhood of 200,000. And that climbed another	
2	50 percent, or to about 300,000, by the mid 2000s.	
3	The two are excuse me.	
4	The total is predominated by the	
5	combination of Lancaster and Palmdale which are	14:43:48
6	reflected by red and blue squares and plot in	
7	the plot below the total. And there are a number	
8	of smaller individual components that are tracked	
9	at the bottom, but they're all relatively small	
10	components of the total as contrasted to Palmdale	14:44:09
11	and Lancaster dominating the population makeup of	
12	the Antelope Valley.	
13	BY MR. DUNN:	
14	Q. When you say "Lancaster and Palmdale,"	
15	are you referring to the cities of Lancaster and	14:44:20
16	Palmdale respectively?	
17	A. Yes.	
18	Q. Directing your attention please to the	
19	exhibit premarked as Exhibit 52, labeled "Applied	
20	Crop Water Duties Reference Evapotranspiration	14:44:37
21	and Crop Coefficients Antelope Valley Area of	
22	Adjudication."	
23	(Whereupon, Scalmanini Exhibit 52 was	
24	introduced for identification.)	
25	BY MR. DUNN:	14:44:50
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1	Do you have Exhibit 52 before you?	
2	A. Yes.	
3	Q. Who prepared Exhibit 52?	
4	A. Our office did.	
5	Q. Where did the information come from?	14:44:54
6	A. There are two things reflected on	
7	Exhibit 52. One is referenced "evapotranspiration,"	
8	that is abbreviated ETo, and crop coefficients	
9	for various crops grown in Antelope Valley	
10	that's denoted as Kc.	14:45:30
11	The referenced evapotranspiration data	
12	was taken from the so-called CIMIS, C-I-M-I-S;	
13	which stands for California Irrigation Management	
14	Information System, located at Victorville, which	
15	is immediately east of the Antelope Valley. And	14:45:54
16	because at the time there was no CIMIS reference of	
17	evapotranspiration data available for the Antelope	
18	Valley, and the reference evapotranspiration data	
19	reflects an average for	
20	MR. ZIMMER: Objection as previously	14:46:15
21	stated. It's also nonresponsive.	
22	MR. DUNN: I'm sorry, Mr. Zimmer. I will	
23	have to ask you to either put the objection on the	
24	record before he starts his question or if not	
25	before, to allow him to finish his answer.	14:46:29
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1	MR. ZIMMER: Well, the problem is	
2	that the answers go on so long they're extremely	
3	nonresponsive oftentimes and overbroad that it's	
4	hard to know exactly where he's going. So if	
5	something comes up that appears to be objectionable	14:46:43
6	for the reasons we stated earlier, then I need to	
7	bring that to the Court's attention.	
8	MR. DUNN: But again, I would ask you	
9	not to interrupt the witness as he begins to	
10	answer the question. And noted for the record is	14:46:54
11	your characterization of the witness' testimony.	
12	Thank you.	
13	BY MR. DUNN:	
14	Q. Mr. Scalmanini	
15	A. So where was I before he interrupted?	14:47:06
16	Q. Let me see if I can assist.	
17	A. Jesus. Unbelievable.	
18	Q. One moment, please.	
19	MR. ZIMMER: Perhaps we could have a	
20	question.	14:47:20
21	THE WITNESS: We had one. I was in the	
22	middle of answering it.	
23	MR. JOYCE: Why don't we have the court	
24	reporter read it back.	
25	BY MR. DUNN:	14:47:54
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1	Q. Mr. Scalmanini, the question that was last	
2	asked was with regards to Exhibit No. 52, "Where did	
3	the information come from?" my notes show that you	
4	were explaining the evapotranspiration coefficient	
5	information and the CIMIS station located in 14:4	8:09
6	Victorville. There was no CIMIS data available	
7	at that time in the Antelope Valley, and then the	
8	interruption or objection by Mr. Zimmer at that	
9	point so	
10	MR. ZIMMER: And, Mr. Dunn, that what you 14:4	8:28
11	just read right there is a perfect example of the	
12	problem we're having here. You asked him where the	
13	information came from. Mr. Scalmanini on his own,	
14	which he's prone to do, simply went off to tell us	
15	what he wanted to tell us regardless of any question 14:4	8:44
16	pending after that information.	
17	Therefore, it's very clear when you read	
18	the question back that it was in fact nonresponsive.	
19	It also raises the issue of why I had to object in	
20	the middle of it because he was being nonresponsive, 14:4	8:54
21	and the question that you had asked was not the	
22	question of what it showed, which I've been	
23	previously objecting to for all the reasons we	
24	raised with the Court.	
25	If Mr. Scalmanini perhaps could answer 14:4	9:06
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1	the question rather than telling us what he thinks	
2	he wants to tell us, that would be helpful.	
3	MR. DUNN: Mr. Zimmer, your comments	
4	are noted for the record.	
5	I will ask the court reporter to read back	14:49:17
6	the last question and then Mr. Scalmanini's answer.	
7	And that question, as I have it, is, "Where did the	
8	information come from?"	
9	If you will read that question back and	
10	Mr. Scalmanini's answer up to the point in time	14:49:31
11	where Mr. Zimmer comes on the record.	
12	MR. ZIMMER: It's nonresponsive.	
13	(Record read as follows:	
14	"Q. Where did the information come	
15	from?	
16	"A. There are two things reflected	
17	on Exhibit 52. One is referenced	
18	'evapotranspiration,' that is abbreviated	
19	ETo, and crop coefficients for various	
20	crops grown in Antelope Valley	14:45:29
21	that's denoted as Kc.	
22	"The referenced evapotranspiration	
23	data was taken from the so-called CIMIS,	
24	C-I-M-I-S; which stands for California	
25	Irrigation Management Information System,	14:45:48
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1	located at Victorville, which is	
2	immediately east of the Antelope Valley.	
3	And because at the time there was no	
4	CIMIS reference of evapotranspiration data	
5	available for the Antelope Valley, and the 14:46:07	
6	reference evapotranspiration data reflects	
7	an average for")	
8	THE WITNESS: the period 1994 through	
9	2003 from the Victorville station. The crop	
10	coefficients are taken from a table published by 14:50:45	
11	the California excuse me University of	
12	California Cooperative Extension Service for	
13	the California High Desert in 2004.	
14	BY MR. DUNN:	
15	Q. Exhibit No. 52, what does it show? 14:51:08	
16	MR. ZIMMER: Objection as previously	
17	stated.	
18	THE WITNESS: It lists basic reference	
19	evapotranspiration data and crop coefficient	
20	data in basically or for basically bimonthly 14:51:28	
21	periods throughout the year with crop coefficients	
22	reflecting differences in the fractions of total	
23	reference evapotranspiration water use as a function	
24	of plant growth stage for the various crops listed	
25	in the table. 14:51:58	
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1	BY MR. DUNN:
2	Q. Mr. Scalmanini, directing your
3	attention to the exhibit marked next in order,
4	Exhibit No. 53, it is labeled "Applied Crop Water
5	Duties Evapotranspiration of Crops Antelope Valley 14:52:11
б	Area of Adjudication."
7	(Whereupon, Scalmanini Exhibit 53 was
8	introduced for identification.)
9	BY MR. DUNN:
10	Q. Do you have number Exhibit No. 53 14:52:20
11	before you?
12	A. Yes.
13	Q. Who prepared it?
14	A. Our office did.
15	Q. Where did the information come from? 14:52:26
16	A. The numbers reflected in the table
17	are the product of the two pieces of information
18	in Exhibit 52, where here in Exhibit 53
19	evapotranspiration of water by crops or symbolized
20	by ETc is a product of referenced evapotranspiration 14:52:53
21	in the previous exhibit times the crop coefficient
22	listed in the previous exhibit at the various
23	respective stages of growth of the various crops.
24	Q. And what does Exhibit No. 53 depict?
25	MR. ZIMMER: Same objection. 14:53:15
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1	THE WITNESS: It depicts how much	
2	water each of the crops listed in Exhibit 53	
3	evapotranspirates through its growth cycle, whether	
4	that's continuous or through part of any given year	
5	in the Antelope Valley.	14:53:38
б	BY MR. DUNN:	
7	Q. I would like to direct your attention	
8	to the next exhibit marked in order as Exhibit	
9	No. 54.	
10	(Whereupon, Scalmanini Exhibit 54 was	14:53:44
11	introduced for identification.)	
12	BY MR. DUNN:	
13	Q. It is labeled "Applied Crop Water Duties	
14	Evapotranspiration of Applied Water Antelope Valley	
15	Area of Adjudication."	14:53:52
16	And, Mr. Scalmanini, do you have	
17	Exhibit No. 54 before you?	
18	A. Yes.	
19	Q. And I observed that you were also	
20	referring to Exhibit No. 101.	14:54:03
21	A. Yes.	
22	Q. Are you locating another copy of that	
23	Exhibit 54?	
24	A. Yes.	
25	Q. Where did you find it in Exhibit No. 101?	14:54:14
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1	A. Each of the last two exhibits plus this	
2	one are taken from Appendix D-3 of Exhibit 101.	
3	Q. And who prepared Exhibit No. 54?	
4	A. Our office did.	
5	Q. And, again, where did the information come	14:54:36
6	from?	
7	A. Well, this is, I'll call it, a	
8	continuing tabulation of calculations that	
9	began with Exhibit 52 and continued through 53	
10	and now gets to Exhibit 54.	14:55:00
11	And the resultant evapotranspiration	
12	of applied water summarized in Exhibit 54 comes	
13	from Exhibit the numbers in Exhibit 53 less any	
14	water that was considered to have been effectively	
15	contributed by precipitation. So in simple summary,	14:55:32
16	the evapotranspiration of applied water are labeled	
17	ETaw is a result of the evapotranspiration of the	
18	crop in Exhibit 53 minus effective precipitation	
19	denoted as Pb in Exhibit 54.	
20	Q. What does Exhibit No. 54 show?	14:56:04
21	MR. ZIMMER: Same objections.	
22	THE WITNESS: As contrasted to Exhibit 53,	
23	which simply shows how much water a crop would	
24	evapotranspirate, Exhibit 54 reflects how much	
25	applied water; meaning after any contribution by	14:56:22
		Page 267

1	precipitation, so how much applied water, water	
2	being applied by man, would be evapotranspirated	
3	by the respective crops.	
4	BY MR. DUNN:	
5	Q. Directing your attention, please, to 1-	4:56:39
6	Exhibit No. 55 premarked for identification.	
7	(Whereupon, Scalmanini Exhibit 55 was	
8	introduced for identification.)	
9	BY MR. DUNN:	
10	Q. It is labeled "Applied Crop Water Duties 1	4:56:44
11	Distribution Uniformity, Applied Water, Irrigation	
12	Efficiencies, Antelope Valley Area of Adjudication."	
13	Do you have Exhibit No. 55 before you?	
14	A. Yes.	
15	Q. Who prepared Exhibit 55? 1	4:57:03
16	A. Our office did.	
17	Q. Where did the information come from?	
18	A. Well, it's a collection of information	
19	that was calculated as summarized in the preceding	
20	exhibits to list the evapotranspiration or 1	4:57:17
21	ETc evapotranspiration by crops, effective	
22	precipitation, evapotranspiration of applied water,	
23	distribution uniformity, which we estimated for the	
24	irrigation methods, you know, applied in the Valley,	
25	to ultimately calculate and applied water for each 1	4:57:42
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1	crop which would be the evapotranspiration of
2	applied water divided by the distribution
3	uniformity, and then added amounts of water which we
4	understood to be used as part of what you might call
5	cultural practices for the different types of crops 14:58:05
6	for control of, for example, erosion by wind to
7	come up with a total applied water which is labeled
8	AWt
9	MR. ZIMMER: Objection. Nonresponsive.
10	I think the question was where the 14:58:24
11	information came from, not what it is.
12	BY MR. DUNN:
13	Q. Mr. Scalmanini, did you finish your answer
14	to the question?
15	A. Almost. 14:58:35
16	Q. Would you please continue.
17	A. Okay. And so all these numbers came from
18	calculations which progressively got to the applied
19	water total, which is listed both in inches and
20	in feet toward the right-hand side of the table 14:58:52
21	or excuse me the exhibit.
22	And then ultimately a calculation of
23	overall irrigation efficiency which is defined as
24	the bottom at the bottom of the exhibit as a
25	calculated number that's that is the sum of 14:59:11
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1	evapotranspiration
2	MR. ZIMMER: Objection. Nonresponsive.
3	BY MR. DUNN:
4	Q. Would you please continue.
5	A. So the last column comes from a 14:59:25
6	calculation as summarized in the last footnote
7	that overall irrigation efficiency is the sum of
8	evapotranspiration of applied water which is the
9	one, two, three fourth column in this table plus
10	applied water for erosion control, which is the one, 14:59:45
11	two, three, four, five, six seventh column, plus
12	applied water for pre-irrigation, which is the one,
13	two, three, four, five, six, seven eighth column
14	in this exhibit, all divided by total applied water;
15	you know, a consistent set of units which would be 15:00:08
16	the ninth column in this table to produce the
17	numbers that are listed as overall irrigation
18	efficiency in the last column.
19	MR. DUNN: It is now 3:00 p.m.
20	THE VIDEOGRAPHER: This marks the end of 15:00:26
21	tape No. 2
22	MR. ZIMMER: Hold on a second before we
23	go off the record.
24	Mr. Dunn, I thought yesterday we had some
25	discussion about checking with the witness to see if 15:00:37
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1	CERTIFICATE OF REPORTER
2	
3	I, JANIS L. JENNINGS, a Certified
4	Shorthand Reporter of the State of California, do
5	hereby certify:
6	That the foregoing proceedings were taken
7	before me at the time and place herein set forth;
8	that any witnesses in the foregoing proceedings,
9	prior to testifying, were placed under oath; that a
10	verbatim record of the proceedings was made by me
11	using machine shorthand which was thereafter
12	transcribed under my direction; further, that the
13	foregoing is an accurate transcription thereof.
14	I further certify that I am neither
15	financially interested in the action nor a relative
16	or employee of any attorney of any of the parties.
17	IN WITNESS WHEREOF, I have this date
18	subscribed my name.
19	
20	Dated: January 17, 2011
21	
22	
23	JANIS JENNINGS
24	CSR NO. 3942, CLR, CRP
25	
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